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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,182	03/23/2004	Tarou Takagi	62758-071	1997
7590 11/29/2007 McDermott, Will & Emery 600 13th Street, N.W.			EXAMINER	
			NGUYEN, PHU K	
Washington, D	C 20005-3096		ART UNIT	PAPER NUMBER
	,		2628	
	·		MAIL DATE	DELIVERY MODE
			11/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/806,182	TAKAGI, TAROU				
Office Action Summary	Examiner	Art Unit				
	Phu K. Nguyen	2628				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin iii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 Oc	ctober 2007.					
,						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 30 and 31 is/are pending in the applic	ation.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>30 and 31</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim for foreign a) △ All b) △ Some * c) △ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed. Skeltgy				
Attachment(e)		PHU K. NGUYEN PRIMARY EXAMINER				
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	GROUP 2300				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D  5) Notice of Informal F	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom, spenounon				

Application/Control Number:

10/806,182 Art Unit: 2628

Applicant claims Priority date on the PCT/JP00/06366, but fails to provide a certified copy.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by KAWASE (5,757,375)

As per claim 30, Kawase teaches the claimed "engineering system for describing a subject solid shade models existing in a three-dimensional space with use of a three-dimensional bit map having a cell" comprising:

"a grid that divides said three-dimensional space into a plurality of cells wherein each of said cells includes information that denotes whether its center exists inside or outside the subject solid shape" (Kawase, the grid of pixels; column 3, lines 31-37); "a solid shape describing apparatus provided with a memory for storing programs"

Application/Control Number:

10/806,182 Art Unit: 2628

(Kawase, graphics subsystem 3);

"a data storage unit" (Kawase, Workstation 1);

"a display unit" (Kawase, CRT 9); and

a plurality of functions provided by the programs, said functions comprising:

"a function for receiving a definition of a plurality of different coordinate systems to any one-of said solid models shape described by the three-dimensional bit-map" (Kawase, column 4, lines 8-5; the pixel and sub-pixel coordinates represent two different coordinate systems having different scales);

"a function for receiving a definition that an area occupied by one of said plurality of different coordinate systems overlaps with a part or whole of an area occupied by another coordinate system" (Kawase, column 1, lines 25-31; the polygons representing the object contains both of pixel area and subpixel area); and

"a function for converting said three-dimensional bit-map to its solid shape data with use of said defined plurality of different coordinate systems and displaying said solid shape according to said solid shape data on the display unit" (Kawase, column 3, line 60 to column 4, line 7).

As per claim 31, Kawase teaches the claimed "method for describing a subject solid models existing in a three-dimensional space with use of a three-dimensional bit map having a cell" comprising:

"defining a grid that divides said three-dimensional space into a plurality of cells wherein each of said cells includes information that denotes whether its center exists inside or

10/806,182 Art Unit: 2628

outside the subject solid shape" (Kawase, the grid of pixels; column 3, lines 31-37); "receiving a definition of a plurality of different coordinate systems to said solid models shape described by the three-dimensional bit-map" (Kawase, column 4, lines 8-5; the pixel and sub-pixel coordinates represent two different coordinate systems having different scales);

"receiving a definition that an area occupied by one of said plurality of different coordinate systems overlaps with a part or whole of an area occupied by another coordinate system" (Kawase, column 1, lines 25-31; the polygons representing the object contains both of pixel area and subpixel area); and "converting said three-dimensional bit-map to its solid shape data with use of said defined plurality of different coordinate systems and displaying said solid model shape according to said solid shape data on the display unit" (Kawase, column 3, line 60 to column 4, line 7).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu K. Nguyen whose telephone number is (571) 272 7645. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (571) 272 7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number:

10/806,182 Art Unit: 2628

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phu K. Nguyen November 27, 2007

> PHU K. NGUYEN PRIMARY EXAMINER GROUP 2300